sphemerides K. 756

'Ολύμπια Δώματα' γρ. τ465

OR, AN

ALMANACK

For the YEAR of

Our LORD GOD, 1782;

Being the Second after

BISSEXTILE, or LEAP-YEAR,
And from the World's Creation, 5786.

Wherein is Contained the Lunations, Conjunctions,

Aspects, and Effects of the Planets; and Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.

Calculated according to Art, and referred to the Horizon

of the ancient and renowned Borough II own of Stamford (formerly a famous University of Latitude is 52 Deg. 20 Min. fitting all Counties of ENGLAND, and, without fen for, the whole Kingdom.

Non eft & Terris mollis ad Afra, Via.

By TYCHO WING, Philomath.

LONDON

Printed for the COMPANY of STATIONERS,
And fold by J. WILKIE, at their Hall, in Ludgate-Street.

Common Notes and Moveable FEASTS.

Dominical Letter Fi Septuagelima Sund. Jan. 27 Golden Number 16 Shrove Sunday Feb. 10 rs Easter Day -Mar: 31 Epact Cycle of the Sun 27 Whit-Sunday May 19 Roman Indiction Ic Trinity Sunday May 26 Number of Direction 10 Advent Sunday Dec. 1

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A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops, and Deans, exercising Ecclesiastical Jurisdiction in England, 1782.

Sees Names. Archbilhops. Deans Names. H.Dr. Fr. Cornwallis H.I. Cornwallis, LL.D. Canterbury Dr. John Fountayne Dr. Wm. Markham York Bifbops. Dr. Robert Lowth Dr. Thomas Newton London Hon. Wm. Digby Hon.Dr.JohnEgerton Durham Dr. Newton Ogle Winchester Dr. North Lord James Beauclerk Dr. Nat. Wetherell Hereford Dr. William Cooke Elv Dr. Edmund Keene Sir Wm. Ashburnham Dr. Charles Harward Chichester Dr. John Hume Dr. Rowney Noel Salifbury Dr. Philip Yonge Dr. Philip Lloyd Norwich Dr. J. Hallam Briftol Dr. Thomas Newton Bath and Wells Lord Fran. Seymour Dr. Charles Moss Dr. Jonathan Shipley Mr. Shipley St. Afaph Dr. Thomas Wilson Carlifle Dr. Edmund Law Hon.Dr.S.Barrington Dr. Adams, Archdeac. Landaff Peterborough Dr. John Hinchcliffe Dr. Tarrant Dr. Foley Worcester Dr. Richard Hurd Hon. Dr. James Yorke Dr. Josiah Tucker Gloucester Dr. John Thomas Dr. Richard Cust Rochester Dr. Proby Litchf. and Cov. Dr. Cornwallis Bangor Dr. John Moore Dr. Thomas Lloyd Dr. Beilby Porteus Dr. William Smith Chefter Dr. John Butler Dr. Lewis Bagot Oxford Dr. John Rofs Dr. Jeremiah Mills Exeter Dr. Thomas Thurlow H. Dr. James Yorke Lincoln St. David's Dr. John Warren Mr. Wollaston, Prec. Westminster Dr. John Thomas Sodor and Man Dr. George Mason

Hon. John Harley

A TABLE of TERMs and their Returns.

						_
TT	T 1		7		February 1	
HILARY	l erm b	egins	lanuary	2.2—ends	February T	2

Returns or Effoign Days.	Exc	Ret.	App.	W.D.
In Eight Days of St. Hilary, Jan. 20				
From the Day of St. Hilary in 15 Days, 27	28	20		Wedn.
On the Morrow of the Purif. bleff. Mary, Feb. 3	4	5	6	Wedn.
		II		Tuefd.

EASTER Term begins April 17-ends May 13.

From the Day of Easter in 15 Days,	April	14	15	16	1 17	Wedn.
From the Day of Easter in 3 Weeks,		21	22	23	24	Wedn.
From the Day of Easter in I Month,		28	29	30	MI	Wedn.
From the Day of Easter in 5 Weeks,	May	5	6	7	8	Wedn.
On the Morrow of the Ascension, -		10	11	12	13	Mond.

TRINITY Term begins May 31 -ends June 19.

On the Morrow of the Holy Trimty,	May	27	28	29		Friday.
In Eight Days of the Holy Trinity, -	June		3	4		Wedn.
In 15 Days of the Holy Trin ty, -		9	10	11	12	Wedn.
In 3 Weeks of the Holy Trinity,		16	17	18	19	Wedn.

MICHAELMAS Term begins November 6-ends November 28.

On the Morrow of All Souls,				v 3	4			Wedn.
On the Morrow of St. Martin,	-			12	13	14	15	Friday
In Eight Days of St. Martin,		-	-	18	19	20	21	Thurf.
In 15 Days of St. Martin, -	-		-	25	26	27	28	Thurf.

N. B. No Sittings in Westminster-Hall upon Ajcension-Day, Midjummer. Day, and the 2d of February.

13

VC

The Exchequer opens Eight Days before any Term begins, except

Trinity, before which it opens but Four Days.

Note, The First and Last Days of every Term, are the First and Last Days of Appearance.

The Names of the Learned JUDGES in the Law.

I. The Rt. Hon. Ed. Lord Thurlow, Lord High Chancellor of G. Britain, Right Hon. Sir Thomas Sewell, Knt. Master of the Rolls.

II.	In the S	Rt. Hon.W. Earl of Mansfield, L.C.J.	Edw.	Willes, Efq.
IK.	Bench.	Sir Wm. Henry Afhurft Knt.		Buller, Efg.

III. In the	Rt. Hon. Al. Ld. Loughborough, L.C. J.	H. Gould, Efq.
Co. Pleas.	Sir Geo. Nares, Knt.	John Heath, Efq.

IV. In the	Sir John Skynner, Knt. L. C. B.	Sir James Eyre, Knt.
Exchequer.	Sir Beaumont Hotham, Knt.	SirRich.Perryn,Kt.

James Wallace, Efq. Att. Gen. James Mansfield, Efq. Sollic. Gen.

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The REGAL Table.

The Year, Month each King and reign, accounti gin Jan. 1.	Leng	gth of Reign.	each	Number of Years expired fince their Reigns ended.			
	began to reign	Y.	M.	D.	beg	KingsName	
William I.	1066 Oct. 14	20	10	26	695	William	
William II.	1087 Sept. 9	12	10	24		William	
Henry I.	1100 Aug. 2	35	3			Henry	
Stephen	1135 Dec. 1	18	10	24		Stephen	
Henry II.	1154 Oct. 25	34	8	11	593	Henry	
Richard I.	1189 July 6	9	9	0	583	Richard	
John	1199 April 6	17	6	13	566	John	
Henry III.	1216 Oct. 19	56	0	28	510	Henry	
Edward I.	1272 Nov. 16		7	21	475	Edward	
Edward II.	1307 July 7		6	18	455	Edward :	
Edward III.	1327 Jan. 25	1	4	27	405	Edward	
Richard II.	1377 June 21	22	3	8	383	Richard	
Henry IV.	1399 Sept. 29	13	5			Henry	
Henry V.	1413 Mar. 20	9	5	11		TT	
Henry VI.	1422 Aug. 31		6	4	321	Henry	
Edward IV.	1461 Mar. 4	10	1	5	299	Edward	
Edward V.	1483 April 9	0	2	13	299	Edward	
Richard III.	1483 June 22		2	0	297	Richard	
Henry VII.	1485 Aug. 22		8	0	273	Henry	
Henry VIII.	1509 April 22	37	9	6	235	Henry	
Edward VI.	1547 Jan. 28	10	5	8	229	-	
Q. Mary I.	1553 July 6	5	4	11	224		
Q. Elizabeth	1558 Nov. 17		4	7	179		
James I.	1603 Mar. 24		0	3	157	1	
Charles I.	1625 Mar. 27		10	3	133	1	
Charles II.	1649 Jan. 30		0	7			
James II.	1685 Feb. 6		0	7		-	
Will. 3. & M.	1689 Feb. 13		0	23		William	
Q. Anne	1702 Mar. 8		4	24			
George I.	1714 Aug. 1	12	10	10		K. George	
George II.	1727 June 11	33	4	14	1	K. George	
George III.	1760 Oft. 25					22, 1761.	

The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.

I. To find the Time of High-Water in most Parts of ENGLAND.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coasts.	H.	M.
Portsmouth, Queenborough, Southampton, -	0	00
Rochester, Wincheljea, Flushing, -	0	45
Downs, Gravefend, Ramkins, Guernsey,	1	30
Denbigh, Bell-Isle, Holy-Isle, Downs-Road, -	2	15
London, Tinmouth, Whithy, Hartlepool, -	3	00
Scarborough, Berwick, Flushing, Staples,	3	45
Flamborough, Humber, Bridlington-Bay, -	4	30
Plymouth, Ramsay, Newcastle, Severn, -	5	15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys	, 6	00
Boston, Start-Point, Foulness, Bristol-Key,	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Isle of Wight, the Needles,	8	15
Isle of Man, Orkney, Pool, South-Foreland, -	9	10
Dover, Harwich, Orfordness, Bullein, -	10	10
Rye, Solebay, Margate-Road, -	11	15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table, is the exact Time of Night. But in other Cases,

2. If the Shadow wants of 12, fee how much it wants of it; which Time, subtracted from that of the Moon's Southing, leaves the Time of Night. Note, You must add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that

Sum, if Need be.

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M	A January February		I N	March April				May	June			
D	h	m	h	m	h	m	h	m	h	m	h	m
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2	2	3 55	3	6	1	49	2	25	4	26	6	m 1
3	2	55	3	54	2	40	4	27	5	25	1	31
4	3	44	4	43	3	33	5	29		19	7 7 8	12
5	4	30	6	35	4	28	1	30	7	8	7	52
6	5 6	17		31	15	27	8	26	7	53 35 15		31
7 8		4	7 8	29	6	28		17	8	35	.9	12
	6	54		30	7	28	9	5 48	9	15	9	55
9	7 8	46	9	30	8	27	9	48	9	. 54	10	42
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11	9	45	11	22	10	11	11	9	11	16	0	a 21
12	10	47	0	a 13	10	59	11	a 31	0	a I	1	15
13	11	46	0	59	11	42	0	a 31	0	47	2	
14	0	a 44	1	41	0	a 22	1	13	I	37	2	59 48
15	1	37	2	21	I	3	I	59	2	29	3	48
16	2	2 5	3	1	1	43	2	46	3	21	4	35
17	3		3	41	2	25	3	38	4	14	5	21
7 - 1	3	49	4	23	3		4	30	5	5	6	6
19	4	29	5 6	7	3	55 43 35 30	5	24	5 6	54		52
20	5 5 6	9	5	55 46	4 5 6	43	M	16		42	7 8	41
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Spring Quarter begins Summer Quarter begins March 2cd. 11h. 10 m. forenoon. June Sept. forenoon. night. Autumn Quarter begins Winter Quarter begins Dec. afternoon.

and the Time of High-Water, and the Hour of the Night.

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5	3	1 8				50	7	1			100	9 57	5	58	4	31

VENUS is an Evening Star till the 20th of March, and after that a Morning Star for the rest of the Year.

JUPITER is a Morning Star to the 15th of June, and then an Evening Star till the End of the Year.

M D Lo

	Ne Fir	A Quarter 21 da	y, at 7 y, at 1	at nigh at nigh afterno mornin	t. on.	M Jupiter Venus fets 1 6 m 7 8 a 11 7 5 47 8 21 13 5 26 8 31 19 5 7 8 41 25 4 48 8 48
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16 17 18 19 20 21 22 23 24 25 26 27 28 29	THES MEWIFS MIWHES MEWIFS ME	Circumcision Sun rises 8 4 Sun sets 3 57 Old Christday Epiph. 12th D. Plow Monday! Lucian Sun rises 7 57 Sun sets 4 4 O.N.Year's Day S. ast. Epiph Ox.&Ca.T. beg Sun rises 7 51 Old 12th Day O.Ch.b.d.kep Sun sets 4 14 28.ast. Epiph Agnes Vincent Hil. Term beg Sun rises 7 39 Conv. St. Paul Septuagesima Sun rises 7 33 Sun sets 4 29	9 43 morn 0 30 i 57 3 24 4 54 6 22 7 32 7 6 2 7 23 8 38 9 5 1 i morn 0 12 1 23 2 35 3 49 5 6 4 6 58 7 37 D rifes	8m50 23 5 7×24 21 42 5V\$56 19 59 3 \$\iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	2 n 38 7 38 12 55 17 44 21 53 25 10 27 24 28 16 27 40 25 27 21 48	Cold frosty weather begins the By Year. D in Perigeo. Rain or snow. Rain or snow. Hilary Unsettled and blowing weather. Prisca Fabian D in Apogeo. Wind and rain in great abundance. Pr. Aug. Fr. bo
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	12	6	7	2	Sati	urn 1	ifes	at :	h.	7 1	n. r	norn	ing		
	13	6	6	39	Tup	iter	rife	s at	z h	. 5:	m.	mo	rnii	10.	
	14	6	6	it	Ma	rs se	ts a	t 10	h.	47	m. :	at ni	ght		
5	15	6		53	Ver	nus f	ets	at 8	h.	121	m. a	t ni	ght.		
6	15		5 5 4 4	29	Sev	en S	tar	s fou	th :	at 4	h. :	25 m	. af	ter	noor
	17	6	5	6											11-1
8	18	6 6 6	4	43	13 Day is 11 h. 20 m. long.										
9	19		4	19	19 Days are increased 3 h. 30 m.										
F	19	5 5 5 5 4	3	56											
11	21	5	3 3 3	32	Sat	urn i	rife	s at	2 h.	36	m.	mo	rnir	ıg.	
12	22	5	3	9	Jup	iter	rife	es at	2	h. 2	23 m	. m	orn	ing	
13	23	5	2	45	Ma	rs fe	ts a	t 10	h.	50	m. :	at ni	ght		
14	24	5	2	21	Ve	nus i	ets	at 7	h.	18	m. e	even	ing.		
	25		1	58											
-	26	4	I			ock l						. 47	fec		
	27	3	1			y br									
144	28	3	0			y an	d n	ight	eac	hı	2 h.	lon	g.		
	29	3		23											
20			1			ente									
21	133	1				ren S	tar	s iou	ith	at 3	h.	30 m	i. at	ter	noor
22	1	1	1	48											
23 F		0	1	12	Sat	urn	rije	s at	1 1	. 5	5 m	. me	orni	ng.	
	1 1	C				piter									
25	4	59		59	IVI	irs fe	C	It IC	n.	53	m.	at n	ign		
		58		22	ve	nus	iets	at 4	n.	49	in.	mor	min	5.	
27		57	2	46	1	٠٠١:	Cal	:	.: 61	10					
20		57	3	9	10	eclip	ied	, in	v 1111	ole.	000	14			
44		50	13	3 33 Day is 12 h. 44 m. long. 3 56 Days are increased 5 h. 3 m.											
3	9	55	1 3	- 41			**	12000	alas	1 -	0 -	-			

ħ

	Ne Fir	w Moon 12 of ft Quarter 20 d	ay, at I lay, at lay, at lay, at	6 evenir	g. ht.	M Jupiter Venus rifes ri
M	W D	Holy Days, Orifes and fets	D rifes & fets	D's Longit.	D's Declin.	Aspects and Weather
3 4 5 6 7 8 9 0	WIFS MINNTH		morn 1 8 2 18 3 9 3 44 4 6 4 25 4 35 4 44 4 56	25 M 59 10 ₹ 37 24 57 3 √ 856 22 33 5 49 18 46 1 ★ 27 13 53 26 7 8 γ 12	26 20 28 18 28 25 26 46 23 41 19 28 14 28 8 58 3 13 2 n 34	Mild weather, and warm, with fometimes fruitful showers.
3 4 5	S	Sun rifes 5 12 Sun fets 6 51 2 S. aft. Easter Sun rifes 5 4 East. T. begins	9 14 10 29 11 37 morn 0 41	20 10 20 2 13 51 25 40 7 II 29 19 23 19 25	27 44	D in Apogeo. More warm and wet.

-	_				-				
1	M	Easter-Mond.	11 2 40	25 m 59	22	1 34			
	TU	tatter Tuefd	morn	10 237	26	20	Mild v	veath	er, and
1 3	**	Michara	1 8	24 57	28	18	war	m, v	vith
		St. Ambrose	2 18	3V356	28	25		etim	
		Old Lady-Day	3 9	22 33	26	46	ers.	tful	fhow-
6	S		3 44	5 * 49	23	41	CIS.		
7/1	F	Low Sunday	4 6	18 46	19	28			
8 1	M	Sun riles 5° 19	4 25	17 27	14	28			100
		Sun sets 6 43	4 35	13 53	8	58	8	2	ğ
		Ox.&Ca.T.beg	4 44	26 7	3	13			
11			4 56	8 V 12	2		Cold b	leak	winds.
12	F	Sun rises 5 12) lets	20 10	8	13			Ser.
13	S	Sun sets 6 51	8 a 1	28 2	13	33			a V
14 2	2	S.aft. Eafter	9 14	13 51	18	21	D in	Apo	geo.
15	M		10 29	25 40	22	28			•
16	Tu :	Sun rifes 5 4	11 37	7 II 29	25	39	More	warn	and
17	W	Laft. T. begins	morn	19 23	27	44	wet.		
			0 41	1525	28	34	Δ	0	4
19	F	Alphege	1 39	13 39	28	1		ħ	ğ
	S	Sun sets 7 5	2 20	26 8	25	3			
21	2	S. aft. Ealter	2 48	85157	22	45	Δ	0	Ь
22	./I -		3 11	22 8	18	11			
23	ľU	St. George	3 29	5 m 15	12	36	Variab	le w	eather
24	W		3 42	19 49	6	11	for i	ome	days.
25	Гн	St. Mark	4 56	4219	0	1 42			
	7		4 . 9	19 10	7	46			1
27	S	Sun rises 4 44	D rifes	4m 18			D in	Per	igen.
28	5	S. aft. Eafter	9 10	19 32	20		*	8	ğ
29	M	3	10 44		24	59		1	
30	Ιυ	Sun sets 7 23	morn		27	45		14	9

M Saturn Jupiter Mars Vo D Longit Declin. Longit. Declin. Longit. Declin. Longit. 1 11/920 22 1 20 28 x 42 22 1 58 27 0 49 20 n 31 24 × 22	nus
D Longit Declin. Longit. Declin. Longit. Declin. Longit.	
1 1W20 22 120 28 x 42 22 1 58 27 0 49 20 n 31 24 7 22	Decun.
7 1 24 22 20 28 55 22 58 1 11 48 21 25 22 45 13 1 23 22 19 29 6 22 58 5 47 22 12 22 38 19 1 19 22 19 28 59 22 59 9 44 22 53 23 51 15 1 12 22 19 28 50 22 59 13 41 23 27 26 12	0 49
M O's O's Observations	
11 75 4 n 42 Clock before the Sun 3 m. 52 fec. 212 52 5 5 5 5 5 5 5 5	g. g. noon. ernoon.

New Moon 12 da First Quarter 20 da	y, at 10	morning morning morning morning	ng.	M Jupiter Venus D rifes rifes 1 11 a 2: 3 m1 7 10 5 3 13 10 33 2 5 19 10 7 2 4 25 9 40 2 3
M W Holy Days, D D orifes and fets	D rises & sets	D's Longit.	D's Declin.	Aspects and Weather
WSt.Phil. & Jam. The Jaw. of Cross Sun rises 4 32 F Rogat. Sunday M St. John, A.P.L. The Sun rises 7 36 The Ascension Sun rises 4 20 Sun fets 7 47 The W Sun fets 7 47 The Whit-S. Dunst. Whit-S. Dunst. Whit-Monday The Whit-Tuesday Ember-Week The Whit-Tuesday The Sun rises 4 2 Sun fets 8 1 The Sun rises 4 2 The Whit-Tuesday Wen. Bede The Corpus Christi Trin.T. begin.	om 10 1 11 1 50 2 17 2 37 2 51 3 21 3 21 3 32 3 44 D fets 9 a 33 10 40 11 37 morn 0 21 0 54 1 17 1 35 1 50 2 3 2 15 2 27 2 44 3 3 D rifes 10 a 54 11 45 morn	4 10 16 18 28 22 15 23 12 5 7 16 17 11 29 2 10 50 22 38 4 12 22 50 5 5 22 18 9 1 17 16 28 38 12 5 5 27 36 12 13 2 12 13 2 12 13 2 12 13 2 12 13 2 12 13 2 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 12 12 13 2 1	23 39 19 32 14 24 8 27 1 55 4 f 55 11 40 17 53 26 42 28 21 27 56 25 38	O. Charl. born 8 h d O. Charl. born 8 h d We Fro F.liv. born Moderate and fin weather towar the end. Augustine, A.1 Oxf. T. begin

W	IN	G.				May, 1782.
M		Sac	nr	n	4.1	Jupiter I Mes 11 Venus
D	Lo	ng.	U	ecii	0.11	ong. Decun. Long. Declar Long. Declar
1	-	9 2	22	1	Sin - a resident	8 1 39 22 1 59 17 1137 23 " 54 29 X29 0 1 2
7	0	48	22	1	19 2	8 17 22 59 21 31 24 14 3 32 1 1
13	0	31			19 2	
19	29	* 1	22		10 1	
Vi	-	un's	7	Su	n's	
D	Lo	ngit		Dec	lin.	Observations
1	11	81	0	151	1 1 2	clock after the sun 3 mm. 10 lec.
2	12		8	15	30	Saturn rifes at 11 h. 25 min. at night
3	13	1		15		lupiter rifes at 11 h. 11 min. at night
	14			6	- 5	Mars fets at 10 h. 50 min. at night
٥.	15	37.7	- 1	6		Venus rifes at 3 h. 9 min. morning
13	16		-1	16		Seven Stars South at oh. 58 m. atternoon
	16	5	- 1	6	56	
	17	- 50		7		Day is 15 hours 12 minutes long
	13		4	A Section	19. 25	Days are increased 7 hours 31 minutes
	19		2 1	100	44	c
	20		0 1			Saturn rifes at 10 h. 53 min. at night
	21	4		8	14	Jupiter rifes at 10 h. 39 min. at night
	22		6	-		Mars fets at 10 h. 43 min. at night Venus rifes at 3 h. 3 min. morning
	23	4:	1	8	58	venus thes at 3 h. 3 mm. morning
	25	4	1		50	Clock after the Sun 4 minutes
		3	9	9		Day breaks at I o'clock
8	26		4	18.50		Twilight ends at 11 h. 54 min.
	28				52	34
c	29			0	4	Seven Stars South at 11 h. 45 m. forenoon
1		11 2		20		Sun enters II o h. 37 min. morning
2	1	2	11:	0	28	
8	2	2	3 2	0	40	Day is 15 hours 56 minutes long
ŀ	3		0 2	0	51	Days are increased 8 hours 13 minutes
B	4	1,	8 2	1,	2	All Day, or Twilight, till July the 23d.
ı	5	1	5 2	1	12	T
		1	3 3	15	22	2 greatest Elong, from Sun
	7	10	0	15	32	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	8		8		41	Day is 16 hours 10 minutes long
	9		5			Days are increased 8 hours 27 minutes
ı	10		2 :	21	59	The second secon

ne ds

n:

18		U	NE	XX	X	D	ay	S.			
	14/1	Lun	ati	ons			15			M Jupiter D rifes	Venus rifes
N	ew	Quarter the 20 Moon the 111 Quarter the 11 Moon the 25t	h d 8th	ay, a day,	t I	in 5 in	m	orni	n.	1 9 a 8 7 8 4c 13 fets 19 3 m 33 25 3 5	2 m16 2 5 1 5; 1 43 1 12
MIV	VI	Holy Days orifes & fets	D	rifes	Mo	on'	s	Mod	n's	Aipects	
2	FI	S. aft. Trin.	o	n 40 55	73	₩ 2 £ 2	91	17 f	4	Δ4 ¥ 8 4 ¥	
3 1 4 7 5 6	K	C.G. III. bo. r. Er. Aug. b. oun rifes 3 49	III	7 17 27	14	YI	2	5 5 n		Δ Ђ ♀ , 8 Bonifa. (>	
78	SS	Sun sets 8 13	1 2	49	19		2	20	3 29	D in Apo	geo
10	MIT	S. aft. Trin. Prs. Amelia b. St. Barnabas) 2 D	47 fets	13	2	26	26 28	10	Some thu	
14	F	Sun rifes 3 45 Sun fets 8 16	10	20	19	S	9	28 26 24	15 56 16	998	
16	S F M	3 S. aft. Trin	II	38 53 norn	28	加	4	9		Good fun	nmer
19	W	Trin T. ends	000	17	22	_	31	9	1 58	weather 1 80 h harvest.	
21	S	Longest Day Day 16 34 4 S. aft. Trin	0	58	21		39	15 21 25	47		igeo
25	T	St. John Bapt Sun rifes 3 43	D	rifes	21	13	35	27	52		
27 28	TF	Sun fets 8 16	10	36	119	~~	33	18	48	mostly dr weather.	
30	E	5 S. aft. Trin			70 617		52	7	38		

W				fath.	June,	178	2.					19
vi!		Sarn	rn		lupiter	19/1	Mars			Ve	nus	
					ong., I eci.						Lie	ci.
	19 7	2: 2	2 [150 12 f 5	8 6		21	259	P12	7	D 30
	8	57 2		20 25	6 22 5		34 24	5	1	10	9	34
9 2		4 2		20 24		6 15		43	7	1 12 46	11	28
5 1		38 2					5 22	39	20	35	15	12
M	Sur	's	S	un's	Walter St.		10000		1000	-		
		5 7 72 6 6 1	-	clin.		Obi	ervati	ons				
					Clock afte							
F			22	15	Saturn rife	sato	h. 14	min	. ev	enir	ng	
3 1			22	23	Jupiter rise	s at a	h. 58 r	nin.	eve	nin	5	
4 1	3		22		Mars fets a							
5	14		22		Venus rife							
6	15		22		Seven Star	s lout	h 10 h.	361	nin.	. to	ren	oon
7	16		22									
8	17	42			Day 16 ho	ours 2	6 minu	tes	ong	5		
F			22	59								
10		·	23		Saturn rife	s at &	h. 38	min	. ev	enii	ng	
11			23		Jupiter rife				. ei	veni	ng	
12	1000		23		Mars fets a							
13			23		Venus rife	s at I	h. 531	nın.	mo	LUIL	ng	
14	-	A	23	18	01-1-1	C		.,				
15			23		Clock and							
F	2		23		Day is 16							
17			23		Days are i				m	in.	wn	ich
18			23		their gr	eatelt	increas	e				
19			23		0 0.		.1		0			
	29		23		Seven Star							1001
21	09		23		Sun enters							
2 z F	1		23		Longest d	ay is	10 nour	s 34	mi	nut	es	
	2		23		v	L EL		1				
24			23		ਝੋਂ greatel	t Elo	ng. iroi	n th	6 31	III		
25 26			23		D	1						
1000		3 7 7	23		Days are	decre	aled I	ומומו	ı e			
27 28		0.0	23									
29	1.		23		Sun is eaf						R	
F	8		23		Day is 16	hou	rs 30 m	inut	es 10	ong		
	0	41	23	11	Marie N.							

er hay

20		. Du	700		7.4
Lu	nations			M Jupiter D fets	Venus rifes
Last Quarter the : New Moon the 10 First Quarter the 1 Full Moon the 24	oth day, at 7th day, at	3 after	night	1 2 m 37 7 2 11 13 1 44 19 1 17 25 0 51	I m24 I 17 I 11 I 9 I 0
	D rifes M & fets L			Aipects	
D D o rifes & fets T Visit. V. Mar. W Visit. V. Mar. T Tr. St. Mart. F Cam. T. ends S Oxford Act. S M T Sun rifes 3 51 W T Sun fets 8 T Sun fets 8 T Sun rifes 3 51 T Sun fets 7 58 T M Sun rifes 3 58	11 2 30 28 11 40 10 11 51 22 morn 0 416 0 19 28 0 42 10 1 14 22 1 27 D fets 1 9 38 12 9 38 12 9 38 12 9 38 12 10 32 10 32 10 32 10 45 11 10 59 11 19 11 11 49 morn. 11 0 32	3 × 27 3 × 42 2 × 43 3 × 24 3 × 35 3 × 3	1 f 42 4 n 9 9 44 14 54 19 30 23 21 26 14 27 57 28 22 27 21 24 57 24 57 4 48 1 f 40 8 9 14 21 19 54 24 22 27 20	* & P Thundersteet D in Apo Tho. à Be Close fogg * P mornings, but fine da & & P Fine seaso weather so days D in Perig 8 4 9 6 0 9	geo ecket yy
24 W Sun rifes 4	D rifes 2 8 a 55 1	9 44 3 = 51	24 51 20 41	Some show	vers
26 F S.An.M.V.M 27 S 28 pG. aft. Trin	9 22 1	0¥57 3 54	9 41	852	
29 M 30 T Sun sets 7 4	3 9 54 1	6729 8 46 0848	8 9		

W	IN	G.		- 1-1-1		Ju	ıly,	178	32.			144.11			21
M		Sat	ur	n	1	Jupi		I	_	ars		1	Ven	us	1
D	LOI	ng.	D	ecl.	IL	ong.	Decl.	LL	ng.	D	ecl.	Lo	g. I	De	cl.
1	27.1	13	22	1 20	122	1 912	2 f 52	12tg	555	21	57	26	8 34 1		n 54
.7	26			20	21	29 2			44	1.00	9	_	12	18	26
	26		22			2.1		8	33	10	17	16	56	19	45
	25	43	22	21	19	55 2		12	10	18	17	123	36	21	35
M	1	un's	- 1	Su				Ob	fers	rati	one	2			
D			-	Dec	lin.	1		17.			-	1.21 : 13	-		
100		1 1 1 1 1 1 1		23 n	1 7	Clock	c befo	ore t	he s	Sun	3 m	iin.	20 16	c.	
	10		5 3	7	3	Day	6	hou		6 -		1			
1	11		3	22	50	Days	ate o	lecti	13 Z	d o	mi	nute	ong		
4	13			22	47	Days		icci.	carc	. 9	****	nuce	•		
12	14		4	2.5	4/	Seven	Star	s for	ıth :	at 8	h.	22 D	n. m	orni	ng
	15			22	35							25 -			•
	16	1	9	22	28										
	17	1	0	22		Satur									
10	18	1	3	22	14	Jupit	er set	s at	ı h.	57	mi	n. n	norn	ing	
	19			22	6	Mars	fets :	at 8	h. 5	6 n	nin.	eve	ning		
	2 20			2 I		Venu	is rile	sat	1 h	. 12	mi	n. 1	norn	ing	
	3 21		- 1	21	49	D		h	0			. 1-			
1	22		- 1	21		Day Days									
	6 23			21	31	Cloc								Sec	
	7 24	2	4	21	11	0.00				oui	, ,		2)	100.	
	8 25	5		21		Day	is 1 5	hou	rs ç	8 m	inu	tes le	ong		
	9 26			20		Sun									
2	0 27	4		20	38										
I	28	4	5	20	27	Seve	n Star	s fo	uth	at 7	, h.	32	m. I	norr	ing
2	2 29			20	15	iun (enters	S	8 h	. 11	mi	n. a	ftern	oon	
		23			3										
3 .	4 1			19		Satu									
	5 2			19	37		er fet								
1.	6 3			19		Mars									
1	7 4		. 1	19		Venu	15 1116	sat	ın	. 9	11111)	. m	Ornii	1g	
1	9 6		. 2	18	57	Day	break	29 21	, , 1		mi	n.			
	0 7			18		Day							ong		
1				. 8		Γwi	light	ende	at	101		2 m	in		

22	N	JGUST	XXX	Days	
		nation			D fets uses
Fin Fu La	off Quarter the 1st we Moon the 9th of the 1st of the 1	ay, at 3 in h day, at lay, at 1. i day, at 1	the mor 4 in the	ning morning	7 C m 22 I m 1 7 I a 59 1 2 2 13 II 36 1 3 19 II 14 1 4 25 10 52 I 5
M M	Holy-Days of rifes & fets		Moon's Longit.	Moon's Declin.	Aspects and Weather
3 5	Sun rifes 4 21 F 10S, aft. Trin	10 41	24 32 6 II 24	27 42	D in Apogeo Some rains with wind
7 V 8 T 9 F	Name of Jefus Sun fets 7 27	1 45 3 2 D fets	25 27 8 N 19 21 25	25 52 22 29 17 55	
10 S 11 I 12 N	Pr.of Wales b.	rs. Br. b.	18 17 2 ← C	12 24 6 14 0 f 17 6 53	Dog-days end △⊙4
	Sun rises 4 41 Sun sets 7 16	9 6	29 49 13m54	13 13	△ h ð D in Perigeo
17 5	12S. aft. Trin.	10 27	12 116	26 54 28 29	△⊙ b Heavy showers,
2c T	Sun rises 4 52 Pr.W.Hen.b.		24 49 8 24 46 22 29	26 2 22 21 17 30	with lightning and thunder.
23 F 24 S 25 F	Sun fets 7 2 St. Barthol.	D rifes 7 a 42 7 55	5×55	11 53 5 5 ²	608,04\$
6 M	Sun rises 5 3	8 6 8 16 8 30	14 22 26 3	6 15 11 52 16 57	Δ Τ ₂ & Sultry and close weather.
9 T	Beh. J. Bapt.	8 49 9 12 9 45	20 33 2 H 24	21 21 24 51	D in Apogeo

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WII	IG.		211	August, 1782. 23
MI	Satu	rn	1	Jupiter Mars Venus
DILO	ng.ll	Decl.	Lo	ng. Decl. Long. Decl. Long. Deci.
			-	1 33 22 f 46 16 9 38 16 # 58 1 50 42 22 m
7 25	9 2	2 22		20 22 46 20 27 15 48 8 43 22
13 24	59 2		19	-1 101-0
25 24	52 2		19	
	un's	Sui	11	Observations
		Dec		
1 9	214	17 n	58	Clock before the Sun 5 min. 52 feconds
2 10	11	17	43	
311		17	27	Saturn fets at oh. 43 min. morning
F 12		17	11	Jupiter fets at oh. 11 min. morning
5 13		16	55	0 0 0 1 101
614		16	38	Seven Stars fouth at 6 h. 29 min. morning
7 14		16	22	Manufacture by Online associate
8 15		16	5	Mars fets at 7 h. 48 min. evening
916		15	47	Venus rifes at 1 h. 23 min. morning
10 17 F 18		15	30	y greatest Elong. from ⊙.
12 19	, ,	15	54	Q greatest Elong. Hom O.
13 20		14	36	Day is 14 hours 40 minutes long
14 21		14	17	Days are decreased 1 hour 55 minutes
15 22		13	58	
16 23		13	40	Clock before the Sun 3 min. 53 feconds
17 24		13	20	
F 25	34	1 -	.1	Saturn fets at 11 h. 44 min. at night
1926		12	41	Jupiter sets at 11 h. 36 min. at night
2027	29	12	22	
21 28	- 1	12	2	Seven Stars fouth at 5 h. 32 min. morning
22 29		11	42	
	7023	11	21	Sun enters m 2 h. 32 min. morning
24 I		1.1	1	
F 2	- 1	10	40	Mars fets at 7 h. 5 min. evening
26 3		10	19	Venus rifes at 2 h. omin. morning
27 4			58	Davis as bonne
			37	Day is 13 hours 44 minutes long
		1	15	Days are decreased 2 hours 51 minutes
30 7		8	54	Day breaks at 3h. 1 min. Clock and Sun are together
2. 0	7	1 0	32	Clock and only ste toferner

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41 St. Mic. Prs. C.A.

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28 S Sun fets 5 52

29 F 188. aft. Tim.

30 M St. Jerome

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W	IN C.		Septer	noer,	170	2.			25
A	Saturn	1	Jupiter	1	Mars	1	· Ve	aas	
DI	Long. De	cl. (Lo	ng. De	ci. IL	ong I D	eci. IL	J.guo.	De.	1.
11	4 1 47 22	25 19	1 39 22 1		R21 101	13 8	St251	18	n 24
1	4 51 22	26 2.		55 10	10 8	47 15		16	40
3	4 58 22	29 21	28 22	57 14	0 7	18 22		14	38
5		30 21	411:3	4 21	51 5	10 7	m16	12	5
		Sun's		Ob	fervat	ione			,
Di	Longit L	eclin.		00	ici vai	1005			
FI	9112 5	8 n 10	Clock af	ter the	Sun c	min.	19 lec		
2		7 49							
3	11 1	7 26	Saturn f	ets at	10 h. 4	5 min.	at ni	ght	
4	12 0		Jupiter	fets at	10 h.	6 min	. at n	ight	
5	12 58	6 42							
	13 56	6 20	Seven S	tars fo	uth at	1 h. 34	m. 1	morn	ing
	14 55	5 56	Day is	3 hou	rs 6 mi	inutes	long		
F	15 53	5 3-	Days ar	e decr	eased 3	hours	30 m	inute	3
Q	16 51		Day bre						
	17 50	4 49							
	18 48	4 26	Mars ri	fes at	1 h. 56	min.	morni	ng	
	19 47	4 3	Venus	iles at	2 h. 5	3 min.	morr	ning	
	20 45	3 40	Jupiter	lets at	9 h. 4	7 min.	at ni	ght	
	21 44	3 17	Saturn	lets at	10 h.	min.	at nig	int	
	22 42	2 54							
	23 41		Clock a	fter th	e San	c mir	. 22	fec.	
	24 40		Twing						
	25 38		Sun is						
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		Lu	nations	S		M Jupiter Ven
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		Holy-Days O rifes & fets	D rifes & fets		Moon's Declin.	Aspects and
1,	T	Remigius	11 a 50			- T 1
2	W		morn	11821		Variable weath
3	Т	Sun rises 6 17			16 47	
4		Sun fets 5 40		77253		for fome days.
5	S	198. aft. Trin.	3 58	21 46	4 34	
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7	M	Sun rifes 6 25	D lets	20 34		
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9		St. Denys		20 7		Windy weather
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	Lun	ations				M Jupiter	Venus (fes
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M W D D	Holy-Days Orifes & fets	D rises	Moon's	Mo	on's	Aspects Weath	
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2:		£ 23	20	- V	Sun ent								
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12 of the year.

W	ING.]	December,	1782		31
M	Sa	turn	1	Jupiter	Mars	1 1	enus
D	Long.	Dec	.ILO	ng Deci. Lo	ong. De	cl. Long.	Decl.
1	120	2214	31 31	34 23 1 24 5	m14112	38 1 1 1	
7		22 4	3 4	55 23 22 9 16 23 19 13			2 22 38
13	3 5		3 7		10 16		6 23 25
	3 4		2 9	2 23 9 21	9/17		
	Sun'			0	bſerva	tions	
	Long			Here have to be a		The state of the s	
	943	30/21 1	54	Clock after th	ne Sun 1	o min. 29	fec.
_		31 22	3	C C	- 1		
		32 22		Saturn fets a			
	12	33 22	27	Jupiter fets a	5 11. 20	min. aite	riloon
6	13	35 22		Seven Stars	outh at 1	oh zom	afternoon
	15	36 22	41	Seven Stars A	outh at .	o 39	untermoon
	16	37 22	48	Mars rifes at	4 h. 30	min. morn	ing
	17	38 22	54	Venus rifes a	t 7 h. 3	o min. mo	rning
		39 22	59				
	19	40 23	4	Day is 7 hou			
100		41 23	9	Days are dec	reased 8	hours 46	minutes
		42 23	13	Day breaks a	t 6 o'cl	ock	
	22	44 23		Twilight end			
r		45 23		Sun due East	at 4 h.	40 min.	
		46 23	22	the state of the s			
		47 23 48 23	24	Saturn sets a Jupiter sets a	t 4 h. 4	min afte	rnoon
1		49 23	27	Jupiter lets a	4 11. 4	Jimi. arte	MOON
1		50 23		Seven Stars f	outh at	h. 27 m	afternoon
	1 29	51 23	28	Sun enters 1	e 2 h. 2	min. afte	rnoon
I		53 23	28	Shortest Day	is 7 h.	44 minute	s long
2	3 1	54 23	27			71	•
2	4 2	55 23	16	Clock and S	un are t	ogether	
	5 3	56 23					
12	6 4	57 23	2.2	Mars rifes at			
12	7 5 7	58 23		Venus rifes	at 8 h.	min mor	ning
	8 7 F 8	0 23					
- 1		1 23		Day is 7 ho			g
	9	2 2 3		Days are inc			
	31/10	3 23	,	Clock befor	e the Su	n. 3 min	30 sec.

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A TABLE of the Equation of Time.

Days	Jan	uar,	F	br.	M	arch	Ap	ril	N	lay	J	une
	th	ſ	m	ſ	m	· f	m	ſ	n'	ſ	m	
1	4	E 15	14	7	12	=37	3	52	3	ad 10	2	add 3
2	4	15 43 10	14	7 7 14 14 20 and 14 20	12	137 24 11	35	33	3	-17	2	2
3	5	210	14	20	12	211	3 3 3 3 2	15	3	24	2	1
3 4 5 6	5	38	14	25	II	58	2	33 15 57 39	3 3 3 3 3 3 3 3 3 3 3	30 36 41	2	1
5	6 6	5	14	30	11	44	2	39	3	36	I	5
6	6	31	14	34	11	30	2	22	3	41	1	5 4
7 8	6	57	14	37	11	15	2	47	3	46	I	3
8	7	22	14	39	II	0	I	47	3	50	1	2
9	7	47	14	40	10	44	I	30	3	53	I	1.
10	8	12	14	41	10	44	1	30 14	3	56	1	
9 10 11 12 13 14	8 8	35	14	41	10	12	0	57	3	46 50 53 56 58 59	0	5 3 20
12	8	59	14	40	9	56	0	41 26	3	59	0	3
13	9	21	14	38	9	39	0	26	4	0	0	2
14	9	43	14	38 36 33 29	9	22	0	10	4	0	0	1
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15	10	25	14	29	988	5 47 30	o o	20	3		ob	ef. 1:
17	10	45	14	24	8	30	0 4	34	3	58		D 2
18	11	4	14	19	8	12	0	48	3	56	0	7 3
19	11	22	14	19 13 6	7		1	2	4 3 3 3 3 3	59 56 54 51 48	0	3 3 5 5
20	II	40	14	6	7	54 35 17	1	15	3	51	I'	ر د
21	11	57	13	50	7 7 6	17	I	15	3	48	1	17
22	12	13	13	59 50	6	59	I	4c	3	44	1	30
23	12	57 13 28	13	42	6	40	I	52	3	39	I	1; 30 42
24	12	42	13	32	6	21	2	4		35	I	5
25	12	56	13	28	6	3	2	14	3 3	29	2	5
25 26	13	8	13	12		44	2	25	2	23	2	20
27	13	20	13	1	5	25	2	35	3	17	2	3.
28	13	31	12	49	5	25 6	2	44	3	10	2	4
29	13	41		77	4	48	2	54	3		2	- 5'
30	13	51			4	20	3	2	2	3 55 46	3	5
31	13	59		1	4	29 10	,	-	2	46	3	8

if the equal or clock time te given; add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time.

In Minutes and Seconds for the Year 1782.

Days	July		August		Sept.		Octob.		Nov.		Dec.	
PK 12	m	ſ	m	ſ	m	ſ	m	ſ	n	ĩ	m	ſ
1	3 2	20	1000		- 1		10		16		1000	29
2	300	22	200	52 48	0	38	10	27 46	16	-15	100	6
1 2 3 4 5 6 7 8 9 10 11	Subtract 3	20 32 43 54	fubtract 5555	44	0	38 57	11	4	16	14	9	42
3	2	54	2~	20	1	17	11	22	16	13	0	17
7	4	7	5	39 33 27	1	36		40	16	11	8	4 ² 17 5 ² 26
6	4	4	5	27	1	36 56	11	57	16	8	8	26
7	4	24	5	20	I 2	16	12	14	16	4	8	0
8	1	34	5	13	2	26	12	30	15	59	7	33
0	1	43	5	- 5	2	56	12	46	15	59 54 48	7	6
10	1	43	4	56	2	17	12	2	15	48	6	30
11	5	2	4	47	3 3	16 36 56 17 37 58 19	13	17 31 45	15 15 15	41 33 24	9 8 8 7 7 6 6 5 4	11
12	,	8 16	1	28	3	58	13	31	15	33	5	42
12	5	16	4	27	4	10	13	45	15	24	16	14
IA	5	23	4	17	4	40	13	50	15	15	14	45
15	5	20	4	- 5	5	1	14	59	15	4	4	16
13 14 15 16 17 18 19 20 21	5	23 29 35 40 45 49 53 55 59	S 5 5 5 5 5 5 5 5 5 4 4 4 4 4 4 3 3 3 3 3	13 55 66 47 38 27 17 5 53 41 28 15 16	5	1 22	14	24	14	53	3 3 2	39 11 42 14 45 16 47 17 47 18 48 18 48 18
17	5	40	3	41	5	43	14	36	14	53 41 28	3	17
18	5	45	3	28	6	43 4 25 46	14	48	14	28	2	47
10	5	40	3	15	6	25	14	58	14	14	2	18
20	5	53	3	1	6	46	15	0	14	o	I	48
21	5	55	2	46	7	7	15	24 36 48 58 9	13	45	1	18
22	5	50	2	31	7	28	15	27	13	29	0	48
23	6	1	2	16	7	48	15	35	13	12	0	18
24	6	2	2	0	8	.0	15	42	12		obet	.12
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27 28	6	2	0	52	9	30	16	5	11	54 36 16 56 36	2	4 ²
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31	15	55	Oaf	1			16	13		,	3	39

If the folar or apparent Time be given; add or subtract the tabular Numbers to or from it, contrary to the Directions of the Table; the Sum or Difference will be the Mean or Clock Time.

Days	Long. Declin.	Long. Declin. 1							
1 4 7 10 13 16 19 22	23 54 23 1 12 28 17 23 42 2 45 24 2 7 24 211 11 11 25 24 2 8 16 7 37 -3 27 26 26 15 22 45	13 12 18 551 18 30 17 11 23 F55 15 17 29 E24 13 F6 bruary 4 10 7 20 8 ar 2 15 38 5 57 20 32 3 28	29 5 2 47 0 56 2 47 1 27 3 M30 0 M49 2 ch 10 28 49 2 ch 10 26 ch 15 1 37 23 32 0 21 8 1 1 27						
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ECLIPSES, &c.

HIS Year affords four Eclipses of the two great Luminaries, as follows: 1. The first is of the Moon, on the 29th of March, about our Eight o'Clock in the Morning; but invisible in these Parts. 2. The second is of the Sun on the 12th of April, and partly visible here: It begins at 6 h. 13 m. Afternoon; and the Sun sets at 6 h. 40 m. before the Eclipse is half over. 3. The third is of the Moon the 21st of September, from 1 h. 20 m. to 3 h. 28 m. in the Morning, which is long before the Moon rises here. 4. The fourth is a solar Desect on the 7th of October, about our One o'Clock in the Morning, and therefore invisible to all Europe.

There will also happen a small Transit of Mercury over the upper Limb of the Sun, from Lest to Right, on the 12th of November, from 2 h. 51 m. to 4 h. 15 m. in the Asternoon. Mercury will pass over like a round black spot, but so small that

some Sort of Telescope will be necessary for viewing it.

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December

January Immersions			February Immersions			March			April Immersions						
						Immersions									
2	7	57	21	1	9	49	24	I	17	-	34	2	14	1	5 z
4	2	24		3	4	17	28	3	11	52	14	4	8	30	44
5	20	52	27	4	22	45	35	5	6	20	56	6	2	59	35
7	15	20	3	6	17	13	47	7	0	49	37	7	21	28	26
9	9	47	38	8	11	42	2	8	19	18	21	9	15	57	18
11	4	15	15	10	6	10	16	10	13	47	5	11	10	26	8
12	22	42	54	12	0	38	34	12	8	15	51	13	4	54	56
14	17	10	35	13	19	6	56	14	. 2	44	38	14	23	23	42
16	11	38	17	15	13	35	15	15	21	13	26	16	17	52	30
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20	0	33	50	19	2	32	6	19	10	11	3	20	6	50	2
21	19	1	39	20	21	0	1	21	4	39	56	22	1	18	46
23	13	29	31	22	15	29	7	22	23	8	44	23	19	47	30
25	7	57	27	24	9	57	41	24	17	37	28	25	14	16	12
27	2	25		26	4			26	12	6	25	27	8	44	54
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May	June	July 1	August		
Immertions	Immerions	Emerlions	Emersions		
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9 18 4 59	8 20 7 15	9 0 19 46	8 2 29 16		
11 12 33 30	10 14 35 30	10 18 48 16	9 20 58 22		
13 7 2 1	12 9 3 44	12 13 16 48	11 15 27 30		
15 1 30 30	14 3 31 57	14 7 45 23	13 9 56 40		
16 19 58 37	Emersions	16 2 14 0	15 4 25 53		
18 14 27 23	16 0 11 6	17 20 42 39	16 22 55 5 18 17 24 20		
20 8 55 48	17 18 39 23	19 15 11 19			
. 22 3 24 11	19 13 7 41	21 9 40 2 2 3 4 8 46	, ,, ,,		
23 21 52 33 25 16 20 54	21 7 35 59	23 4 8 46 24 22 37 33	22 6 22 57		
	23 2 4 17	26 17 6 22	25 19 21 40		
27 10 49 14	24 20 32 37 26 15 0 56	28 11 35 14	27 13 51 1		
29 5 17 33 30 23 45 52	28 9 29 16	30 6 4 13	29 8 20 24		
30 23 45 52	30 3 57 37	30 0 4 .3	31 2 49 48		
September	1 October	November	December		
Emerhous	Emerhons .	Emerions			
1 21 19 19		1 1 56 15			
3 15 48 46		2 20 25 3			
5 10 18 15		4 14 53 40			
7 4 47 44	7 7 8 38	6 9 22 30			
8 23 17 12	9 1 38 0	8 3 51 8	The Eclipses of		
10 17 46 41			Jupiter's Satel.		
12 12 16 11	1 3 31		lites will not be		
14 6 45 43			visible this		
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THE Times of the Eclipses contained in the last Table are adapted to the Meridian of the Royal Observatory at Greenwich; and by carefully observing the Times of the Immerfions and Emersions of this Satellite, which is the most convenient and proper for Geographical Purpofes of any of the other three, the Longitude or Difference of the Meridian of the Place where the Observation is made, and the Place the Eclipses are calculated for, may be exactly discovered; and is the most correct and practical Method ever yet hit upon, notwithstanding the many whimfical, and some ingenious Ways, invented for that Purpose, by several Persons who have spent much Time and Labour, in Hopes of gaining the great Reward of Twenty Thousand Pounds offered by Parliament, for a practical Method of folving that grand Problem with Certainty, but hitherto to no Effect. It is also much more easy and correct to find the Difference of Meridians by this Method, than by the Eclipses of the Moon, not only on Account of their more frequent happening, but because the Motion and Times of these Immersions and Emersions are more easily observed than the Times of the Beginning and End of a Lunar Eclipse; because the Time of the Moon's Ingress into the Shadow of the Earth, and her Egress out of it, is not easily diffinguished from that of the Penumbra.

I shall illustrate the Use of the preceding Table by an Example.

Suppose on the 25th Day of October this Year, the Time of the Emersion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 1 h. 24 min. 45 sec. at Night; I find by the Table, that the Time of this Emersion will happen at the British Observatory at oh. c min. 33 sec. the same Day: The Difference of the Times is 1 h. 24 min. 12 sec. which being converted into Degrees and Minutes of the Equator, will make 21 deg. 3 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

Operation.	Emersion observed Emersion at Greenwich	=	1 h		45° 33
	Emersion observed Emersion at Greenwich The Difference of Time Answering to	- =	1 2 21°	3'	12

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The

The Dominion of the Moon in Man's Body passing under the Twelve Zodiacal Confiel ations.

Head & Face. Neck and Throat. 95 Breaft, Stoma. and Ribs. np

୪ 5g mBowels and Belly. m Secret Members. M Knees.

TT Arms and Shoulders. D Heart and Back. Reins and Loins. Thighs. Legs. The Feet.

Π

The Characters of the Seven Planets.

7 Saturn, 4 Jupiter, & Mars. O Sol, & Venus, & Mercury, D Luna, & Dragon's Head, & Dragon's Tail. Manlius upon the Twelve Signs paraphrased.

The princely Ram glittering in golden Wool.

Wonders to fee the backward rifing Bull.

II With Looks submiss beckons the Twins; next whom

. 55 A Cancer, who after him fees Leo come;

my Him Virgo follows, then the Scales that weigh

- In even Balance equal Night and Day,

m Draw on the Scorpion with the fiery Sting.

At which the Centaur with his Shaft levelling, Seems ready to let fly: To these comes on

The Goat's contracted Confellation.

Aquarius next pours from his Urn a Flood,

Whilst the glad Fish to the lov'd Waters scud.

These Characters are no inchanting Tools, For crafty Knaves to bubble credulous Fools: But wife Men's Marks, that briefly reprefent The feveral ufeful Objects thereby meant :

Who knows them well, and can them right apply, Has the true Ground-work of Aftrology.

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A Compendious Chronology of memorable Things fince the Creation to this present Year.

A.P.J.	before	Years	
	Chrift.	fince.	
710	4004 The Creation of t	he World 5786	
1766	2948 Noub born	4730	
2366	2348 Noab's Flood bega		
2481		onarchy established 4015	
2718	1996 Abraham born	3778	
2986	1728 Joseph fold into Eg	ypt 3510	
3143	1571 Moses born	3353	
3223	1491 The Ifraelites Depa	irture out of Egypt 3273	
3530		royed by the Greeks 2966	
3710	1004 Solomon's Temple b		
4126	588 Ferufalem and the'	Temple dellroyed 2370	
4176		om the Den of Lions 2320	
4198	516 The Temple of Je	rusalem rebuilt 2298	
4391	323 The Death of Alex	ander the Great 2105	
4710	4 The true Year of (
4714	The vulgar Year of	Christ's Birth 1782	
A.U			
33	The Passion and Resurrection	n of Jesus Christ 1749	
70	Ferulaum and the Temple	destroyed by Titus 1712	
100	St. John, the last of the Apo	files, dies Dec. 20. 1682	
313	Christianity triumphs under	Constantine 1469	
476	Augustulus, the last Roman	Emperor, deposed 1306	
606	The wicked Phocas makes I		
	of the Church	1176	
608	Makomet broaches his Impo	flure at Mecca 1174	
872	Italy and Rome plundered b		
1012	Swain King of Denmark co		
1066	William Duke of Normandy	conquers England 716	
1110	Arts and Sciences taught in		
1119	The first War between the	rench and English 563	
1300	The Mariners Compass invented		
1330	This contract the contract to		
1380			
1453	Constantinople taken from th		
		1-7	

17 17 17

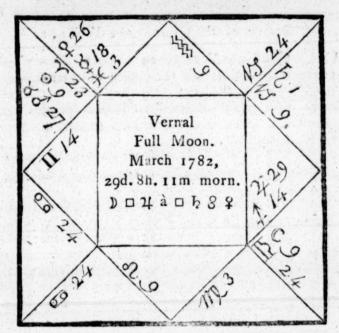
40	Wing, 1782.		
A.D.		Years	
		fince.	
	The Persians conquered by Tamerlane	319	
1500	Rome plundered by the Duke of Bourbon	282	
1517	Martin Lutber first disputed against Popery	264	
1536	England separated from the Church of Rome	246	
1588	The Spanish Armada defeated by the English	192	
1603	Q. Eliz. dies March 24, and K. James I. began	179	
1604	Died of the Plague in London, in 2 Years, 08,596	178	
1605	Gunpowder Treason, Nov. 5.	177	
1613	The New River Water brought to London	169	
1618	The excellent Sir Walter Raleigh beheaded	164	
	K. James I. died, King Charles I. began, Mar. 27.		
	35,417 Persons died of the Plague in London	157	
	The cruel Irifh Maffacre began, October 23.	141	
	Burleigh House stormed by Cromwel, July 24.	139	
	K. Charles I. beheaded, January 30.	133	
	Oliver Cromwell died.	124	
	K. Charles II. restored, May 29.	122	
	68,586 Persons died of the Plague in London	117	
	London burnt, and a great Sea-Fight with the Dutch		
1672	War declared against the Dutch, March 17.	110	
	A great Snow for 11 Days together	108	
1675	The Town of Northampton burnt, Sept. 3.	107	
1680	A great and splendid Comet appeared	102	
1684	The great Frost that held 13 Weeks	13 11 1	
		98	
1685	K. Charles II. died, Feb. 6. and K. James II. began		
-600	The Duke of Monmouth beheaded, July 15.	97	
-600	Seven Bishops sent to the Tower, June 8.	94	
1000	K. James II. abdicated, December 12.	94	
	K. William and Q. Mary crowned, April 11.	93	
	The French Fleet entirely defeated by the English		
	Whitehall Palace destroyed by Fire.	84	
	K. William died, March 8, and Q. Anne began	80	
	Q Anne proclaimed War against France, May 4.	03	
1703	A great and terrible Wind, Nov. 26 and 27.	79	
1704	Gibraltar taken by the English	78	
1707	England and Scotland united, May 1.	75	
1710	Riots and great Disturbances in England.	72	
1714		7 ² 68	
	1		

A.D.	1	Years
		fince.
1715	A Rebellion in Scotland and Lancashire suppressed	67
1716	A great Frost in the Beginning of this Year	66
1718	The Spanish Fleet destroyed by Admiral Byng.	64
1710	A furprizing Meteor feen, March 19, at 8 at Night	63
1710	Mr. Flamfteed, a ce ebrated Aftronomer died Dec. 31.	63
1727	The incomparable Sir Isaac Newton, died Mar 20.	55
1727	K. George I. died, June 11, and K. George II. began	55
1736	The Prince and Princess of Wales married, Ap. 27.	46
1739		43
1739		43
1739	7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1740	HE CHARLES THE THE THE SELECTION OF THE	42
1742		40
	A splendid Comet appeared from December 23, to	
•743	February 18, in Y	39
1744	March 4, France declared War against England :	
The fact	and March 31, England declared War against	
	France.	38
1745	Cape Breton taken from the French, June 16. The Scotch Rebels defeated by the Duke of Cum-	37
1740	berland, at Culloden, near Inverness, April 16.	
	HE 및 하다면서 아니라 250 대통령이나 없었다면서 전환 전환 사람들이 되었다면서 보고 있다면서 보다 되었다.	36
	A General Peace figned October 7.	34
	Cape Breton reftored to the French.	33
	The British Fishery established.	32
	The Prince of Wales died March 20.	31
	The Date and Calendar altered.	30
	Lifton destroyed by an Earthquake, Nov. 1.	27
	England declared War against France, May 18. The Island Minorca taken by the French, June 27.	4
	Count Brown defeated by the King of Prussia near	
1757		
1255	Prague, May 6.	25
1/57	The King of Prussia deseated by Count Daun at	1
10-	Collin, June 18. The French defeat at Crewelt by P. Ferdinand, June 23	25
	8 Lord Howe flain, July 6, and Gen. Abercrombie	
175		1 1 1 1 1 1
175	repulsed at Ticonderoga, July 8.	24
175	8 Cape Breton taken by the English, July 26.	24

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42	WING, 1782.	
A.D.		Years
		fince.
1758	The Ruffians defeated at Zorndorff by the King of Pruffia, Sept. 25.	24
	The Island of Guadalupe taken by Gen. Barrington and Commodore Moore, May 1.	23
1759	The French defeat, at Minden by P. Ferdinand, Aug. 1. The King of Prussia deseated at Cunnersdorff by	23
	Gen Wolfe flain, though victorious, Sept. 13, and	23
	Quebec taken Sept. 18, by Gen. Townshend.	23
	Montreul taken by Gen. Amberft, Sept. 8.	22
	K. Geo. II. died Off. 25, and Geo. III. succeeded.	22
	Pondicherry taken by Col. Coote, Jan. 15.	21
	K George III. married Q. Charlotte, Sept. 8.	21
	K. George III. crowned, Sept. 22.	21
1762	The Island of Martinico taken by Gen. Monckton	
	and Adm. Rodney, Feb. 14.	20
1702	George Prince of Wales born, August 12.	20
1702	The Hawannah taken by Lord Albemarle and Sir George Pocock, August 12.	20
1763	A general Peace in all Europe.	19
1763	Pr. Frederick, Bishop of Ofnaburgh, born Aug. 16.	19
	Prince William-Henry born August 21.	17
	Princess Charlotte-Augusta-Matilda born Sept. 29.	16
	Prince Edward born Nov. 2.	15
	Princess Augusta-Sophia born Nov. 8.	14
	Princes Elizabeth born May 22.	12
1771	Prince Ernest-Augustus born June 5.	11
1772	Swedes refign their Liberties to the King.	10
1773	Prince Augustus Frederick born Jan. 27.	9
1773	The Light Gold recoined.	9
	Prince Adolphus Frederick born Feb. 24.	8
	War commenced against the North-Americans.	7
1776	Princess Mary born April 25.	6
1776	The Americans declare themselves independent.	6
1777	Princes Sophia born Nov. 3. The French sign a Treaty with the Americans.	5
1778	The French fign a Treaty with the Americans.	4
1778	War begun against the French.	4 3 3
1779	Prince Octavius born Feb. 23.	3.
1779	War commenced against the Spaniards.	3
1780	War against the Dutch begun.	2



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At this Vernal Lunation we have 9° of m culminating, and 14° of II on the Ascendant, and all the Planets under the Earth except the D in the 6th House, 2 and 3 in the 11th, the 3 and 3 in the 12th.

Venus just separated from a \(\sigma\) of \(\frac{1}{4}\), is now in \(\struct \) with \(\delta\), and applying to a of h .- Were I to enumerate all the Minutize of this Scheme, it would exhibit a View as multifarious as the famed Pandora's Box. But I shall confine myself to the Outlines of the Picture only, and leave it to young Tyros to investigate the more minute Parts .- Many and great will be the Transactions in divers Parts of the World; and it looks as if War was about to break out in a new Part of the World. The Places chiefly concerned, are Ruffia, Polonia, France, Italy, Ireland, Algiers, Paris, Rome, Libon, &c. - Things feem to wear a promiting Afpect, particularly to the Merchants and Traders of this Kingdom; and a good Spring. But I shall wave any farther Judgment on this Head, and advert to that of the Comet that appeared in the Spring last Year, in or near the Sign Taurus, and give you the Opinion of Calvifius and Helvicus, two of the first Writers on Comets; who fay, when a Comet appears in the Sign Taurus, it is ' fig-'nificat malum eile hominum, et paucitatem bonum ec um, &c.' It denotes Evils to Mankind, Death of some potent Person, Mortality to Horses, Oxen, Cows, &c. Very hard Weather, dark, cloudy, with much Snow and Wind, Storms and Shipwrecks, 'cum multis aliis.' Which we ought to befeech God to avert, and let those Things which are the Forerunners of his Juffice, be as Warnings to us; and that we may not perfift in our corrupt and evil Courses, but return from them, and thereby obtain his Favour and Bleffings.

A Survey

A Survey of the CELESTIAL WORLDS.

HAVING of late Years taken a general Survey of this terraqueous World, and the Effects of its circum-incumbent Atmosphere, we shall extend our Views to the celestial Worlds, the more proper and effential Subject of this our annual Ephemeris: And first, of those most remote and glorious

Spangles, the fixed Stars.

They are said to be fixed, because they always keep (at least feemingly) the same invariable Distance from one another, and from the Ecliptic, as if they were so many Studs of Gold fixed in the crystal Firmament, as Empedocles and Anaximenes. (according to the Testimony of Plutarch de Placit. Philosoph. 1. 2. c. 13.) held. Hence the Sphere wherein they are conceived to be ranged, is called anham, i. e. inerrans, in Regard of the unalterable Order observed in their Intervals or Interflitia: And for their Intervals or Interstitia. And for this Reafon chiefly, Ricciolus conceives the Multitude of the fixed Stars (as it were an Army drawn up in Battle Array) might be called the Militia of Heaven.

The Particulars to which we shall confine our Enquiries, touching these glorious and splendid Bodies, shall be these fol-

lowing:

First, Their Substance. Secondly, Their light Colour, and Scintillation. Thirdly, Their Number. Fourthly, Their Figure. Fifthly, Their Magnitude.

Sixthly, Their Place and Distance from the Earth, or rather Sun.

As to their Substance, the Opinion of the Ancients are various. Zoroafter maintained the Stars to be of a fiery Nature; Thales held them to be earthly, yet withal fiery; Empedocles maintained to be fiery, and to confift of that Fire which the Æther containing in itself, struck forth in its Secretion; Anaxagoras affirmed (but very extravagantly) that the ambient Ather being of a fiery Nature, by the Swiftness of its Motion matcheth up Stones from the Earth, which being fet on fire, be-

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come Stars, and are carried from East to West. Diogenes conceived them to be of the Substance of Pumice-stones tet on fire. and to be the Spiracula, or breathing Holes of the World. Plato, with more Reason, held them to be for the most Part of a fiery Nature; yet to admit of the Mixture of other Elements. as it were Cement, to knit and consolidate them. Xenophanes Supposes them to be Clouds, set on fire in the Manner of Coals, quenched in the Day-time, and in the Night re-kindled. Heraclides and the Pythagoreans held every Star to be a World by itself, existing in the infinite etherial Space; and containing an Earth, and Air, and a Sky; which Opinion is found in the Works of Orpheus, for his Followers affirmed the Stars to be fo many Worlds. Aristotle and his Followers maintain them to be of the same Substance as the Heavens, and only more condenfed; and to be simple Bodies without the Mixture of any Elements. The Stoics, and with them our Manlius, make them to be of a fiery Substance. Others conceive them to be composed of the fime Matter as Exhalations and Vapours. and consequently to consist of a Substance partly aqueous, partly aereal; of which fee Pliny, 1. 2. c. 9. Petrus Comestor. Hugo Victorinus, and Eugubinus.

Of all these, the most celebrated and the most probable Opinion is, that the Stars are fiery Bodies. An Opinion which wants not the Authority of the ancient Christian Church to back it, which in (Hymn feria secunda ad Vesper, of which St. Ambrose is held to be the Composer) sings after this Manner.

" Aquæ fluenta dividens

" Cælum dedisti limitem,
" Firmans locum cælestibus,
" Simulam Tana Binnsti

" Simulquæ Terræ Rivulis,
" Ut unda flammas temperet.

" Terræ folum nec diffipent," &c.

Where we find the Reason why the Waters are placed above the Heavens, viz. to restrain and temper the excessive Fervor of the Sun and Stars. Again, in Hymn fer. quarta ad Vesper, the same Church thus sings,

" Cæli Deus fanctissime,

" Qui Lucidum centrum poli,

" Candore pingis igneo."

Of the same Sentiment are most of the Fathers, not only of Latin, but the Greek Church; as Cyrillus, Hierosolimitanus and Cæsarius,

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Cæfarius, who speaking of the Firmament, says, 'Recepturum · erat subjectorum luminarium splendorem solem inquam (& · Lunam) &c. reliquum Aftrorum cœlum, ex Igne Naturam habentem.' Theodoretus likewise, to the same Purpose: · Bifariam Deus omnium divisit Aquarum Naturam, &c. quas. dam furgum collocavit, quæ suo liquore, ac frigiditate non · finerent corrumpi Firmamentum ab Igne Luminarium.' St. Chrysostom is positive for the stery Nature of the Stars; with whom concur Gregory Niger Procopius, and Anastasius Linaita conform to whose Opinions, is that of Tertuilien, St. Ambrofe, St. Augustin, Arnobius, Lactantius, Anselmus, Alcuinus, Beda. Conclude we therefore, induced as well by the Authority of these ancient Fathers, as persuaded by the concordant Sentiments of divers eminent modern Philosophers, and Astronomers, that the Stars are compound and not simple Bodies, made up of elementary Matter, formed into fiery Globes, and confilling ex folido, &c. Liquids, as this terraqueous Globe of ours, and consequently subject to Corruption and Alteration. See Franciscus Patricius, I. 15. Pancolinias, Ricciolus Almagest Nov. 1. 9, fect 1. Scheinerus in Rosa Ursina, 1. 4, 2. c. 22, 23, &c. 24. Kircherus in Itinerar. Extatic. &c. Schottus upon him, from whom the more curious Reader may receive further Satisfaction in this Enquiry touching the ingenious Nature and Substance of

Those tremulous Tapers of the Skies,
Which burn at the Day's Obsequies.
Resplendent Sparks of the first Fire!
In which the Beauty we admire,
And Light of those eternal Rays,
The uncreated Mind displays;
Visible Prints, by which we trace
Time in its invisible Race!
Pure bright Ideas that direct
To the first Cause our Intellect.
Jewels that deck with their rich Light
The sable Garment of the Night.
Mirrors, in whose clear polished Faces,
Nature sees her's; th' World's Looking glasses.

To express in some of those poetical Characters, which the ingenious

Marino hath given of them.

The next Thing which we are to take Notice of is their Light. As to their Light; that which is chiefly to be confidered, is whether it be intact, given themby God at their Creation, or mutuatitious, borrowed from

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the Sun? The latter is maintained by Metrodorus, in Plutarch de Placit. Philosoph. l. 2. c. 17. With whom concur Albategnius and Vitellio, and divers others, both Philosophers and Astronomers, at this Day. But the first Opinion seems to carry more of Truth in it, and is by Macrobius afferted in Somn. Scrip. 1.1. c 17. where he affirms, 'Omnes Stellas. (i.e. fixas) Lumine lucere suo, quod ille supra Solem locate in ipso puriffimo Æthere funt; in quo omne quicquid eft Lux Naturalis, &c. fua eft.' And this feems confequent to what hath already been declared touching their igneous Nature, for Fire cannot be without Light; and indeed it appears altogether improbable that the Sun should illuminate the fixed Stars, seeing as Bulialdus (in Astronom Philolaic. 1. 1. c. 11.) obferves, the Sun's Diameter if beheld from Saturn would not appear greater than 3' 24"; and therefore must needs afford too weak and extenuated a Light fufficiently to illustrate even that Planet, much less is it able to give Light to the fixed Stars, removed to fo great a Distance beyond Saturn. Wherefore, with Aristarchus Samius de Systemata Mundi, (fat least that Piece revived by Roberval, and published by Mersennus in Observat. Phyfico-Mathema . be genuine.) We may reasonably imagine each of the fixed Stars to be the Head and chief Part of a diffinct mundane system; as the Sun is the Head and chief Part of our visible System, and as the Sun hath several Planets constituted and carried about him; so likewise every one of the fixed Stars hath other mu dane Bosies, like Planets disposed and moving about them, though not to be discerned by us, by Reason of their great Distance from our earthly Habitation. And accordingly Galilaeo (Dialog. 3. System Cosmiæ) doubts not to affert, that the fixed Stars are so many Suns, conform and like this Sun of ours, ferving to illuminate the innumerable other planetary and lunary Bodies within their respective Systems, and therefore endued with innate and original Light. Of the same Opinion is Antonius Maria de Beitha (in suo Radio Sydereomystico, p. 177.) with whom Ricciplus (Almagest. Nov. l. 6. c 2.) concurs; where he fays, ' Mihi longe probabilior horum Opinio videtur, ' (Bruni, Galilæi, Renati Des Cartes, & Reithæi) quia magis congruit opificis Numinis Majestati, ut non unicam Stellarum à se ipsa Lucentem ' fed plures instar Solis accenderit; nec alium fui Luminis fontem agonoscerent quam omnium Luminum Fratrem Deum.' See to this Eff. & more fully, Gassendus Syntag. Nat. Physic. Part 2. 1.4. c. 4. Kircherus Itinerar. Extatica, Dialog. 1. c. 9. Hevelus in Cometograph. 1. 7. and Otto de Guerick 1. 7. De vacuo Spatio; where he treats de Stellis fixis.

As to their Colour, it is visibly various, according to the Difference of their Light, attempered by the divers Constitution of their Matter or Subfance; some appearing of a ruddy, others of a Gold Colour; some of a Silver white, some pallid, others of a Leaden Hue: Whence some have made an Estimate of their Nature, and ranged them under the several Planets; of whose Qualities they conceived them to be participant, according to the Proportion they carry of Resemblance in their Colours; as for Example, of the Nature of 12, they reckon Porpus, and that in the Belly of the Southern Fish, and in the Belly and Tail of Cetus; of the Nature partly of 12, and partly of 24; they reckon that in the right Shoulder of Cepheus, and in his left Foot, and those in the Girdle of

Orion.

Orion. Of the Nature of b and &; the first Star in Aries, that in the Beak of the Crow, and in the Head of Ophinchus; of hand & the Pole Star, those in the Head of the Dragon and Medula, those in the Breaf of Caffiopæa and Hydra, in the Side of Perfeus and in the Wing of Virgo. called Pravindemiarix, and in the Back and Tail of Leo; of hand of those in the left Shoulder of Bootes, in the Belly of the Hare, and in the Northern Scale of Libra; of the Nature of 24, they count those in the Nodus et Commiffura Pifcium; of the Nature partly of 24, partly of &, Arcturus, the Eagle and the Thigh of Pegafus, Regulus, or Cor Leonis, Syrius, and Cor Scorpii; of the Nature of 24 and 2, that in the Head of Andromeda, in the Thigh of Aquarius, and Achar Nahr 'five ultima flumini Orionis; of the Nature of 24 and &, that in the Mouth and Shoulder of Pegasus, and the Southern Scale of Libra; of the Nature of & the three in the Tail, and the four in the Side of the greater Bear, Aldebaran, the Hyades, and Pollux (one of the Twins); of and the O, the Afelli, and the Oculus Sagittarii; of the Nature of and Q, Spica Virginis. Of the Nature of & and Q, the Head of Hercules, the Goat with the Kid, and those in either Shoulder of Orion; of 3 and D, the Pleiades, and those in præsepe or manger. Of Q, that is the Navel of Andromeda. Of Q and &, that in the Shoulder-blade o Andromeda; those in the Lyra, in Corona Guossia, in the Beak and Tai of the Swan, the Cup, and Fomalhaut. Of the Nature of &, Procyon of the leffer Dog, as by Schikardus (in Aftroscopio) we find them range and diffinguished.

FINIS.

